

**IN THE CLAIMS** – Following is the list of claims and their status:

9.-12. (Cancelled)

C1 13. (Currently amended): A method for the prevention or treatment of muscle disuse syndrome in an animal or human for which such prevention or treatment is indicated, comprising administering a creatine compound in unit dosage form ~~in an amount effective to treat said muscle disuse syndrome~~ during an immobilization period and a subsequent rehabilitation period, and further wherein the creatine compound dosage amount decreases substantially after the end of the immobilization period and during the rehabilitation period.

14. (Previously added): The method according to claim 13, wherein said creatine compound is creatine.

15. (Previously added): The method according to claim 13, wherein said creatine compound is a creatine analogue.

16. (Previously added): the method according to claim 13, wherein the animal or human to be treated need not in addition perform a training programme to increase muscle volume and muscle functional capacity.

C2 17. (Currently Amended): The method according to claim 13, wherein the creatine compound, in unit dosage form, is administered in an amount that leads to a total daily supplementation of about 0.5 to 5 20 g creatine.

18. (Previously added): The method according to claim 13, wherein said muscle disuse syndrome is the result of reduced physical activity due to immobilization, disease, aging or handicap.

19. and 20. (Cancelled)

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21. (New) The method according to claim 17, wherein the total treatment period lasts up to between about two to twelve weeks.

22. (New) A method for the prevention or treatment of muscle disuse syndrome in an animal or human for which such prevention or treatment is indicated, comprising administering a creatine compound in unit dosage form during an immobilization period and a subsequent rehabilitation period, and further comprising administering about 5 g creatine compound, in unit dosage form, more than once daily during the immobilization period and subsequently administering about 5 g creatine compound, in unit dosage form, only once daily during at least a portion of the rehabilitation period, wherein the rehabilitation period lasts no longer than 10 weeks.

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